

SECRET

11. An ordered redundant array of immobilized oligonucleotides produced [according to the method of claim 1] by:

(b) immobilizing one oligonucleotide from said plurality of identical oligonucleotides in each of said positions on said solid support to create an ordered array comprising a plurality of identical immobilized oligonucleotides;

(d) extending each of said primed circular templates along a z coordinate to create an extended immobilized oligonucleotide comprising at least two copies of said sequence of interest, thereby generating an ordered redundant array, wherein said ordered redundant array refers to said array having at least two copies of said sequence of interest along the z coordinate.

23. An ordered redundant array of immobilized oligonucleotides produced [according to the method of claim 13] by:

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nucleic acid; and iii) a plurality of corresponding circular DNA templates, each circular DNA template comprising a different portion of the sequence of said target;

b) immobilizing each of said oligonucleotides in one of said positions on said solid support to create an ordered array comprising a plurality of immobilized oligonucleotides;

c) adding to each immobilized oligonucleotide of said ordered array along a z coordinate a corresponding circular DNA template under conditions such that said immobilized oligonucleotide hybridizes to said corresponding circular DNA template to create a plurality of primed circular templates; and

d) extending said primed circular templates to create an ordered redundant array of extended immobilized oligonucleotides, each extended immobilized oligonucleotide comprising at least two copies of said portion of said sequence of said target nucleic acid, wherein said ordered redundant array refers to said array having at least two copies along the z coordinate of said portion of the sequence of interest contained in said primed circular template.

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